

DERWENT-ACC-NO: 1997-120455

DERWENT-WEEK: 200306

COPYRIGHT 2006 DERWENT INFORMATION LTD

TITLE: Prodn. of tri:chloro:silane - by reducing
tetra:chloro:silane in fluidised bed reactor
contg. silicon® particles

INVENTOR: GRIESSHAMMER, R; KOEPLL, F ; SCHREIEDER, F

PRIORITY-DATA: 1995DE-1034922 (September 21, 1995)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE
PAGES MAIN-IPC		
CN <u>1153138</u> A	July 2, 1997	N/A
000 C01B 033/107		
DE 19534922 C1	February 20, 1997	N/A
003 C01B 033/04		
JP 09118512 A	May 6, 1997	N/A
003 C01B 033/107		
CA 2185981 A	March 22, 1997	N/A
000 C01B 033/107		
KR 97015462 A	April 28, 1997	N/A
000 C01B 033/08		
JP 2890253 B2	May 10, 1999	N/A
003 C01B 033/107		
IT 1284881 B	May 22, 1998	N/A
000 C01B 000/00		

INT-CL (IPC): B01J008/24, C01B000/00 , C01B033/04 , C01B033/08 , C01B033/107

ABSTRACTED-PUB-NO: DE 19534922C

BASIC-ABSTRACT:

Prodn. of trichlorosilane comprises reducing tetrachlorosilane in a fluidised bed reactor contg. Si particles, in which a reaction gas contg. H₂ and tetrachlorosilane is passed through the fluidised bed to react with the Si particles and produce a product gas contg. trichlorosilane. The

product gas can be removed from the reactor. The novelty is that the Si particles are heated by microwaves to 300-1100 deg.C. A process for producing pure Si is also claimed.

USE - The process is used to clean appts. used in the mfr.of polycrystalline Si from unwanted Si deposits.

ADVANTAGE - Conversion rate is increased.

CHOLEN-DRAWING: Dwg.0/0